## MISCELLANEOUS FIELD STUDIES MAP MF-1078 AGENCY DRAW NE QUAD., UT.

is about 22 ft (6.7 m) thick and is ledge forming. This ledge is in the stratigraphic position of the B groove elsewhere (as in the Piceance Creek Basin) and overlies another marlstone sequence about 27 ft (8.2 m) thick that also contains a thin rich oil-shale bed. This marlstone sequence constitutes the basal part of the Parachute Creek Member as mapped in this study. It rests on a stromatolitic bed at the top of the underlying member (Tgd). The member is about 705 ft (215

CORRELATION OF MAP UNITS

Tua

Tgd

Holocene - OUATERNARY

Focene TERTIARY

DESCRIPTION OF MAP UNITS

m) thick Main body of the Douglas Creek Member--Comprises the following lithologies listed in order of abundance: Sandstone, mudstone, siltstone, stromatolites, and chalky limestone. The sandstone is light yellowish gray to yellowish brown, fine to medium grained, poorly sorted, frequently contains algal fragments and nearly always is oil stained; ledge forming. The mudstone is greenish gray, consists of silt, clay, and floating quartz grains; forms reentrants. The siltstone is yellowish gray, sandy; slope forming. The stromatolites are yellowish gray and ledge forming; some of them are brecciated and oil stained. The top of the member is here considered to be the top of a stromatolitic bed 2 ft (0.6 m) thick that overlies a thick sandstone sequence whose upper few feet generally is oil stained. The top of the member locally forms a prominent ledge that underlies gentle slopes. A maximum of about 690 ft (210 m) of the Douglas Creek is exposed in the southeast corner of the mapped area east of and adjacent to Main Canyon. The exposed sequence includes beds considered by Cashion (1967) to be a part of the alluvial Renegade Tongue of the Wasatch Formation. In the wells drilled by oil companies in various parts of the area, the thickness of the main body of the Douglas Creek is about 1,800 ft (549 m) as shown in the cross section

WASATCH FORMATION (EOCENE AND PALEOCENE) -- Total thickness of the Wasatch Formation ranges from about 2,170 ft (661 m) to 3,015 ft (919 m) and averages about 2,500 ft (762 m)

Twu Upper part--Shown only in cross section. Dominantly red beds of alluvial origin with several tongues of lacustrine rocks in the upper part. Ranges from 750 to 1,300 ft (229-396 m) and averages about 1,060 ft (323 m) thick in the subsurface

Twl Lower part--Shown only in cross section. The top and bottom of this unit are picked at persistent changes in the configuration of curves in the electric logs of holes drilled in this and adjacent areas. The upper one may mark the boundary between the Eocene and Paleocene parts of the Wasatch. This unit ranges in thickness from about 1,350 to 1,720 ft (411-524 m) and averages about 1,457 ft (444 m)

Kmv MESAVERDE FORMATION (UPPER CRETACEOUS) -- Thickness of entire Mesaverde measured to the top of the Buck Tongue of the Mancos Shale; ranges from about 1,852 to 1,920 ft (565-585 m) and averages about 1,883 ft (574 m). Thickness data from geophysical logs. Only upper part shown in cross section

## REFERENCES

Cashion, W. B., 1967, Geology and fuel resources of the Green River Formation, southeastern Uinta Basin, Utah and Colorado: U.S. Geological Survey

Professional Paper 548, 48 p. Peterson, P. R., 1975, Lithologic logs and correlation of coreholes, P. R. Spring and Hill Creek oilimpregnated sandstone deposits, Uintah County, Utah: Utah Geological and Mineral Survey Report

of Investigations 100, 30 p. Pipiringos, G. N., 1978, Preliminary geologic map of the Bates Knolls quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies

Map MF-1025. LIST OF DRILL HOLES IN THE AGENCY DRAW NE QUADRANGLE, UTAH

l <b>a</b> p	Operator	Hole name and number	Total depth	
			Feet	Meters
1	Geokinitics, Inc. 1	Agency core hole No.	157+	48+
2	Geokinitics, Inc.	Agency Draw No. 8	91	28
3	Sinclair Oil and Gas Co. <sup>2</sup>	Uintah Oil Association No. 1	7,433	2,266
4	Sinclair Oil and Gas Co.	Uintah Oil Association No. 2	3,949	1,204
5	Geokinetics, Inc.	Agency Draw No. 6	220	67
6	Geokinetics, Inc.	Agency Draw No. 7	170	52
7	Texaco. IncSkyline Oil Company	Government Ag No. 1	12,261	3,737
8	Texaco, IncSkyline Oil Company <sup>2</sup>	Government AF No. 1	10,605	3,232
9	Continental Oil Co. <sup>2</sup>	Bull Canyon No. 1	4,215	1,285
LO	Geokinetics, Inc.	Agency Draw No. 5	110	34

Information concerning this hole not verified. <sup>2</sup>Stratigraphic information from these wells projected into cross section along structure contours.







